



The Covered Mess provides an area for troop messing during training. The facility is also used as an area for weapon cleaning. The covered facility has a concrete floor and has a standing seam metal roof supported on columns and a wood framing system. The sides are left open. Stand-up eating tables and serving tables are provided.

This standard definitive design should be adopted to local conditions such as climate, topography, seismic zone, available construction materials and techniques and the existing character of surrounding buildings. These factors may affect plans and elevations. The building foundation must be designed based on the results of a geotechnical investigation.

The design and construction must comply with applicable codes and standards including: technical instruction TI800-01, "Design Criteria"; Department of the Army regulations, technical manuals, handbooks, standards, and specifications.

All dimensions not labeled are in millimeters. Gutters, downspouts and splash blocks should be provided where required by climatic conditions. Ice guards may be necessary in northern climates. The serving and eating tables should be constructed with galvanized or stainless steel shelves as required by the installation. The shelves are supported with galvanized steel pipes and galvanized structural shapes. The floor of the mess is sloped from the center to the perimeter to provide drainage. The Covered Mess is accessed only by able-bodied personnel and does not require ADA compliance unless dictated by local criteria.

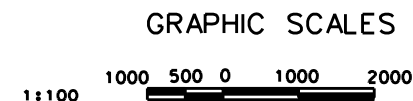
No mechanical systems are required for the Covered Mess.

The Covered Mess shall be served by 120/240V, 1 phase, 3-wire secondary power. Rigid steel conduit shall extend a minimum of 1524mm (5') outside the building for power circuits entering and leaving the building. Voltage drop shall comply with NEC standards and Army technical manuals. Grounding will be installed in accordance with NFPA 70, the NEC, and other applicable standards. The panel board shall be 120/240V single phase, mounted inside the building. Receptacles shall be general purpose, GFCI weatherproof, 120V, 20A duplex mounted a minimum of 450mm (24") above the finished floor.

Illumination levels will be designed in accordance with IES. Lighting shall consist of white lamps providing a level of 15 foot-candles and red lamps for lower level night light. Separate switching shall be provided for white lamps and red lamps.

The emergency electrical system shall comply with NFPA 70 and NFPA 101. Provide a mast style lightning protection system for safe cover of personnel.

Fire protection is not required per fire codes for this building. Consult local Fire Marshall for compliance with local laws.

[illegible]

U. S. ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE HUNTSVILLE, ALABAMA	15 MAY 2007		Designed by: _____	Dates: _____	Rev.: _____
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**RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL
COVERED MESS**

Steel
reference
number
A - 08